



A.D. 1865, 19th SEPTEMBER. N° 2382.

S P E C I F I C A T I O N

OF

CHARLES WORSSAM.

CONSUMING SMOKE IN FURNACES.

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY :

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25, SOUTHAMPTON BUILDINGS, HOLBORN.

Price 4d.

1866.



A.D. 1865, 19th SEPTEMBER. N^o 2382.

Consuming Smoke in Furnaces.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Charles Worssam at the Office of the Commissioners of Patents, with his Petition, on the 19th September 1865.

I, CHARLES WORSSAM, of Commercial Wharf, Kingsland Road, in the
5 County of Middlesex, Engineer, do hereby declare the nature of the said
Invention for “IMPROVEMENTS IN THE MEANS OF AND APPARATUS FOR CONSUMING
SMOKE IN FURNACES,” to be as follows :—

This Invention consists of a tube or cylinder made flat, oval, or square to
suit different furnaces. This tube or cylinder I fix in front of the furnace
10 over the fire. At the end of this tube or cylinder, inside the furnace, I fix
a fan-shaped casting or hollow body. I also attach a steam pipe to the boiler
and insert the end in the mouth of the tube or cylinder outside the furnace.
Attached to this steam pipe is a cock with a lever and balance weight and a
vertical sliding bar ; at the lower end of this sliding bar is fixed an incline,
15 so that on the fire-door being opened it passes under the incline, lifts the
sliding bar, and opens the cock, the steam then passes through the steam
pipe into the mouth of the tube or cylinder, by which means a vacuum is
formed, and the atmospheric air or gases is or are drawn in and passes or
pass through the tube or cylinder with the steam into the fan-shaped casting
20 or hollow body, and is or are distributed over the fire, igniting the smoke.

Worssam's Improvements in Consuming Smoke in Furnaces.

Having thus described the nature of my said Invention, and the manner of performing the same, I wish it to be understood that I claim particularly the passing of atmospheric air or gases by and with the steam through the same tube or cylinder on to fires in furnaces; I also claim as an entire new method the opening of the steam cock by means of the fire-door, as herein- 5 before described.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1866.

